

Notice of Allowability

Application No.

10/016,300

Examiner

Rudy Zervigon

Applicant(s)

TZU ET AL.

Art Unit

1763

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the request for Continued Examination Under 37 CFR 1.114.
2. ☒ The allowed claim(s) is/are 3-6,20-23,29-33,37-41 and 52-56.
3. ☒ The drawings filed on 25 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 5/12/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 17, and May 12, 2004 have been entered.

Allowable Subject Matter

2. Claims 3-6, 20-23, 29-33, 37-41, and 52-56 are allowed.
3. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art references to the present invention is to Conger et al (USPat. 4,761,269), Hao et al (USPat. 6,123,775), Tomita et al (USPat. 5,423,936), and copending Application No. 09/798,258. Conger, for example, teaches a lid assembly (16; Figure 2; column 5, line 54 - column 6, line 26; Compare applicant's lid 20; Figure 2) for a semiconductor processing system (column 1, lines 10-15). Refer to prior office actions for additional claim limitations.

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Currently, all amended independent claims 3, 22, and 31 now recite a gas "reservoir positioned on the lid". The closest prior art reference to Conger teaches a reservoir (56; Figure 1) coupled to the valves 22a,b; Figure 2. Yet, as shown by Conger, his reservoir is not positioned on his lid. None of the other prior art references teach or suggest such a gas reservoir positioned on the lid as claimed by independent claims 3, 22, and 31.

Newly added claims 52-56 are allowable for the same reasons independent claims 3, 22, and 31 are allowable. Specifically, new independent claim 52 recites "a gas control system disposed on the first surface" of the lid "the gas control system comprises: ... a gas manifold disposed on the lid...at least one precursor reservoir fluidly connected between at least one precursor source and the gas manifold". New independent claim 54 recites "a gas control system disposed on the first surface" of the lid "the gas control system comprises: ... a gas manifold disposed on the lid...at least one precursor reservoir fluidly connected to the gas manifold".

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Rudy Zervigon whose telephone number is (571) 272.1442. The examiner can normally be reached on a Monday through Thursday schedule from 8am through 7pm. The official fax phone number for the 1763 art unit is (703) 872-9306. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Chemical and Materials Engineering art unit receptionist at (571) 272-1700. If the examiner can not be reached please contact the examiner's supervisor, Gregory L. Mills, at (571) 272-1439.

Rudy Zervigon
6/25/4